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**ABSTRACT OF THE DISCLOSURE**

An independent suspension undercarriage module includes a first subframe segment and a second subframe segment. The subframe is manufactured of a composite material to provide a truss-like structural unibody which is mounted as a unit to the underside of a low floor vehicle through a plurality of resilient dampers. Passengers are thereby provided with a secondary vibration isolation structure separate from the suspension systems which filter out high frequency content generated by the suspension systems.

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